

We Claim:

1. A secure housing system permitting the entry of confidential data, such as a personal identification number which is intended in particular for an electronic payment system, the secure housing system comprising:

printed circuit board (7) carrying an associated controller;

10 a capacitive touch matrix (2) connected by connecting wires (6) to said printed circuit board (7) ;

15 a security module (16) and electronics sensitive to the variations in the capacitance of the system, said capacitive touch matrix sandwiched between two glass plates, respectively, a protective plate (3), and a support plate (5), said protective plate (3) produced from fragmentable glass and equipped with an electrical conductor (13) forming part of a fraud-detection circuit (11) having a voltage source (12) and a current detector (14) associated with an alarm member, said electrical conductor, breaking under the effect of a fragmentation of the protective plate (3) to bring 20 about the interruption of the current in the fraud-detection circuit (11) and the activation of the alarm member.

25 2. A secure housing according to claim 1, in which said support plate (5) is produced from fragmentable glass and equipped with a second electrical conductor which forms part of the fraud-detection circuit (11) and which breaks under the effect of a fragmentation of said support plate to bring about the interruption of the current in the fraud-detection circuit (11) and the activation of the alarm member.

30 3. A secure housing according to claim 1 in which said support plate (5) is covered on its rear face with a third glass plate which extends to cover the rear face of said printed circuit board.

35 4. A secure housing according to claim 3, in which said cover plate is produced from fragmentable glass and equipped with an electrical conductor which forms part of the fraud-detection circuit (11) and which breaks under the effect of a fragmentation of said cover plate to bring

about the interruption of the current in said fraud-detection circuit (11) and the activation of said alarm member.

5. A secure housing according to Claim 1, in which said printed circuit board (7) is located in the immediate vicinity of said capacitive touch matrix (2) covered by said protective plate (3).

6. A secure housing according to Claim 1, in which said printed circuit board (7) and the electronic components secured thereto are embedded in 10 a brittle resin(8).

7. A secure housing according to Claim 1, in which said fraud-detection circuit (11) is passed through by a current oscillating at high frequency and modulated in amplitude and frequency in order to scramble 15 the electromagnetic emissions of the system with respect to the outside.

8. A Secure housing according to claim 2 in which said support plate (5) is covered on its rear face with a third glass plate which extends to cover the rear face of said printed circuit board.

20 9. A secure housing according to Claim 2, in which said printed circuit board (7) is located in the immediate vicinity of said capacitive touch matrix (2) covered by said protective plate (3).

25 10. A secure housing according to Claim 3, in which said printed circuit board (7) is located in the immediate vicinity of said capacitive touch matrix (2) covered by said protective plate (3).

11. A secure housing according to Claim 4, in which said printed 30 circuit board (7) is located in the immediate vicinity of said capacitive touch matrix (2) covered by said protective plate (3).

35 12. A secure housing according to Claim 2, in which said printed circuit board (7) and the electronic components secured thereto are embedded in a brittle resin(8).

13. A secure housing according to Claim 3, in which said printed circuit board (7) and the electronic components secured thereto are embedded in a brittle resin(8).

5 14. A secure housing according to Claim 4, in which said printed circuit board (7) and the electronic components secured thereto are embedded in a brittle resin(8).

10 15. A secure housing according to Claim 5, in which said printed circuit board (7) and the electronic components secured thereto are embedded in a brittle resin(8).

15 16. A secure housing according to Claim 2, in which said fraud-detection circuit (11) is passed through by a current oscillating at high frequency and modulated in amplitude and frequency in order to scramble the electromagnetic emissions of the system with respect to the outside.

20 17. A secure housing according to Claim 3, in which said fraud-detection circuit (11) is passed through by a current oscillating at high frequency and modulated in amplitude and frequency in order to scramble the electromagnetic emissions of the system with respect to the outside.

25 18. A secure housing according to Claim 4, in which said fraud-detection circuit (11) is passed through by a current oscillating at high frequency and modulated in amplitude and frequency in order to scramble the electromagnetic emissions of the system with respect to the outside.

30 19. A secure housing according to Claim 5, in which said fraud-detection circuit (11) is passed through by a current oscillating at high frequency and modulated in amplitude and frequency in order to scramble the electromagnetic emissions of the system with respect to the outside.

35 20. A secure housing according to Claim 6, in which said fraud-detection circuit (11) is passed through by a current oscillating at high frequency and modulated in amplitude and frequency in order to scramble the electromagnetic emissions of the system with respect to the outside.